

## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| L1    | 47   | (transmit\$4 near5 (metrix or metric\$2)) same pilot  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/11/12 17:17 |
| L2    | 4391 | (error or correct\$4) near5 (metrix or metric\$2)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/11/12 17:18 |
| L3    | 1030 | pilot same (metrix or metric\$2)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/11/12 17:25 |
| L4    | 1111 | MIMO and (downlink or down-link or (down adj link) or downconvert\$3 or down-convert\$3 or (down adj convert\$3) or downstream or down-stream or (down adj stream)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/11/12 17:22 |
| L5    | 866  | MIMO and (uplink or up-link or (up adj link) or upconvert\$3 or up-convert\$3 or (up adj convert\$3) or upstream or up-stream or (up adj stream))                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/11/12 17:23 |
| L6    | 786  | 4 and 5   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/11/12 17:23 |
| L7    | 0    | 1 and 3 and 6   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/11/12 17:24 |
| L8    | 0    | 1 and 6   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/11/12 17:24 |

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|-----|------|--|---|----|----|------------------|
| L9  | 33   | 2 and 6  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/12 17:24 |
| L10 | 13   | 3 and 6  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/12 17:25 |
| L11 | 154  | 6 and (metrix or metric\$2)                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/12 17:25 |
| L12 | 2878 | (375/144 or 375/260 or 375/267).ccls.            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/12 17:26 |
| L13 | 2419 | (370/208 or 370/321 or 370/337 or 370/344).ccls. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/12 17:27 |
| L14 | 757  | (455/500 or 455/88).ccls.                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/12 17:28 |
| L15 | 145  | 6 and 12   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/12 17:28 |
| L16 | 56   | 6 and 13   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/12 17:28 |

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|-----|---|----------|---|----|----|------------------|
| L17 | 4 | 6 and 14 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/12 17:28 |
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Date: 11/12/2006

# PALM INTRANET

Time: 16:59:57

## Inventor Name Search Result

Your Search was:

Last Name = WALLACE

First Name = MARK

| Application#             | Patent#                 | Status | Date Filed | Title   | Inventor Name |
|--------------------------|-------------------------|--------|------------|---|---------------|
| <a href="#">07707389</a> | Not Issued              | 161    | 05/30/1991 | GOLFER'S ACCESSORIES-CARRYING BELT  | WALLACE, MARK |
| <a href="#">09435371</a> | <a href="#">6260314</a> | 150    | 11/08/1999 | EXTENSION PIECE FOR A UTILITY POLE  | WALLACE, MARK |
| <a href="#">09435449</a> | <a href="#">6151743</a> | 150    | 11/22/1999 | STRUTURAL PANEL FOR BRIDGING BETWEEN SPACED SUPPORTS  | WALLACE, MARK |
| <a href="#">09532492</a> | Not Issued              | 161    | 03/22/2000 | High efficiency high performance communications system employing multi-carrier modulation   | WALLACE, MARK |
| <a href="#">09539157</a> | <a href="#">6493331</a> | 150    | 03/30/2000 | METHOD AND APPARATUS FOR CONTROLLING TRANSMISSIONS OF A COMMUNICATIONS SYSTEMS  | WALLACE, MARK |
| <a href="#">09539224</a> | <a href="#">6473467</a> | 150    | 03/30/2000 | METHOD AND APPARATUS FOR MEASURING REPORTING CHANNEL STATE INFORMATION IN A HIGH EFFICIENCY, HIGH PERFORMANCE COMMUNICATIONS SYSTEM | WALLACE, MARK |
| <a href="#">09614970</a> | <a href="#">6952454</a> | 150    | 07/12/2000 | MULTIPLEXING OF REAL TIME SERVICES AND NON-REAL TIME SERVICES FOR OFDM SYSTEMS  | WALLACE, MARK |
| <a href="#">09636008</a> | <a href="#">6522683</a> | 150    | 08/10/2000 | METHOD AND APPARATUS FOR ADAPTIVE LINEAR EQUALIZATION FOR WALSH COVERED MODULATION  | WALLACE, MARK |
| <a href="#">09776073</a> | <a href="#">6961388</a> | 150    | 02/01/2001 | CODING SCHEME FOR A WIRELESS  | WALLACE, MARK |

|                 |                |     |            |  |               |
|-----------------|----------------|-----|------------|--|---------------|
|                 |                |     |            | COMMUNICATION SYSTEM   |               |
| <u>09816481</u> | <u>6771706</u> | 150 | 03/23/2001 | METHOD AND APPARATUS FOR UTILIZING CHANNEL STATE INFORMATION IN A WIRELESS COMMUNICATION SYSTEM  | WALLACE, MARK |
| <u>09854235</u> | <u>6785341</u> | 150 | 05/11/2001 | METHOD AND APPARATUS FOR PROCESSING DATA IN A MULTIPLE-INPUT MULTIPLE-OUTPUT (MIMO) COMMUNICATION SYSTEM UTILIZING CHANNEL STATE INFORMATION | WALLACE, MARK |
| <u>09859345</u> | <u>6662024</u> | 150 | 05/16/2001 | METHOD AND APPARATUS FOR ALLOCATING DOWNLINK RESOURCES IN A MULTIPLE-INPUT MULTIPLE-OUTPUT (MIMO) COMMUNICATION SYSTEM                       | WALLACE, MARK |
| <u>09875397</u> | Not Issued     | 41  | 06/06/2001 | Method and apparatus for antenna diversity in a wireless communication system  | WALLACE, MARK |
| <u>09887225</u> | <u>7027523</u> | 150 | 06/22/2001 | METHOD AND APPARATUS FOR TRANSMITTING DATA IN A TIME DIVISION DUPLEXED (TDD) COMMUNICATION SYSTEM  | WALLACE, MARK |
| <u>09956449</u> | <u>7006848</u> | 150 | 09/18/2001 | METHOD AND APPARATUS FOR UTILIZING CHANNEL STATE INFORMATION IN A WIRELESS COMMUNICATION SYSTEM  | WALLACE, MARK |
| <u>09982280</u> | Not Issued     | 83  | 10/18/2001 | Multiple-access hybrid OFDM-CDMA system  | WALLACE, MARK |
| <u>09985879</u> | Not Issued     | 120 | 11/06/2001 | System for a configurable open database connectivity conduit   | WALLACE, MARK |
| <u>09993087</u> | Not Issued     | 161 | 11/06/2001 | Multiple-access multiple-input multiple-output (MIMO) communication system   | WALLACE, MARK |
| <u>10001178</u> | Not Issued     | 93  | 11/02/2001 | ADAPTIVE RATE CONTROL FOR OFDM COMMUNICATION SYSTEM  | WALLACE, MARK |
| <u>10017308</u> | <u>6760388</u> | 150 | 12/07/2001 | TIME-DOMAIN TRANSMIT AND RECEIVE PROCESSING WITH CHANNEL EIGEN-MODE DECOMPOSITON FOR   | WALLACE, MARK |

|                 |                |     |            |  |               |
|-----------------|----------------|-----|------------|--|---------------|
|                 |                |     |            | MIMO SYSTEMS   |               |
| <u>10042529</u> | <u>7020110</u> | 150 | 01/08/2002 | RESOURCE ALLOCATION FOR MIMO-OFDM COMMUNICATION SYSTEMS  | WALLACE, MARK |
| <u>10085456</u> | <u>6862271</u> | 150 | 02/26/2002 | MULTIPLE-INPUT, MULTIPLE-OUTPUT (MIMO) SYSTEMS WITH MULTIPLE TRANSMISSION MODES  | WALLACE, MARK |
| <u>10205685</u> | <u>6862434</u> | 150 | 07/26/2002 | TRANSMISSION DIVERSITY SYSTEMS   | WALLACE, MARK |
| <u>10228393</u> | <u>6940917</u> | 150 | 08/27/2002 | BEAM-STEERING AND BEAM-FORMING FOR WIDEBAND MIMO/MISO SYSTEMS  | WALLACE, MARK |
| <u>10279483</u> | <u>6744743</u> | 150 | 10/23/2002 | METHOD AND APPARATUS FOR CONTROLLING TRANSMISSIONS OF A COMMUNICATIONS SYSTEM  | WALLACE, MARK |
| <u>10315707</u> | <u>7035316</u> | 150 | 12/09/2002 | METHOD AND APPARATUS FOR ADAPTIVE LINEAR EQUALIZATION FOR WALSH COVERED MODULATION                                     | WALLACE, MARK |
| <u>10375162</u> | Not Issued     | 30  | 02/25/2003 | OFDM communication system with multiple OFDM symbol sizes  | WALLACE, MARK |
| <u>10696208</u> | Not Issued     | 30  | 10/29/2003 | Multiple-access hybrid OFDM-CDMA system  | WALLACE, MARK |
| <u>10696630</u> | Not Issued     | 61  | 10/29/2003 | Method and apparatus for allocating downlink resources in a multiple-input multiple-output (MIMO) communication system | WALLACE, MARK |
| <u>10786856</u> | Not Issued     | 30  | 02/24/2004 | Method and apparatus for utilizing channel state information in a wireless communication system                        | WALLACE, MARK |
| <u>10884305</u> | <u>7116725</u> | 150 | 07/02/2004 | TIME-DOMAIN TRANSMIT AND RECEIVE PROCESSING WITH CHANNEL EIGEN-MODE DECOMPOSITION FOR MIMO SYSTEMS                     | WALLACE, MARK |
| <u>10903066</u> | Not Issued     | 30  | 07/30/2004 | Method and apparatus for utilizing channel state information in a wireless communication system                        | WALLACE, MARK |

|                 |                |     |            |  |               |
|-----------------|----------------|-----|------------|--|---------------|
| <u>10903813</u> | <u>7054378</u> | 150 | 07/29/2004 | METHOD AND APPARATUS FOR PROCESSING DATA IN A MULTIPLE-INPUT MULTIPLE-OUTPUT (MIMO) COMMUNICATION SYSTEM UTILIZING CHANNEL STATE INFORMATION | WALLACE, MARK |
| <u>10985400</u> | Not Issued     | 30  | 11/10/2004 | Multiple-input, multiple-output (MIMO) systems with multiple transmission modes  | WALLACE, MARK |
| <u>11184601</u> | Not Issued     | 71  | 07/18/2005 | Beam-steering and beam-forming for wideband MIMO/MISO systems  | WALLACE, MARK |
| <u>11191333</u> | Not Issued     | 20  | 07/28/2005 | Scalable infrastructure for handling light weight message protocols  | WALLACE, MARK |
| <u>11208263</u> | Not Issued     | 30  | 08/18/2005 | Coding scheme for a wireless communication system  | WALLACE, MARK |
| <u>11224916</u> | Not Issued     | 30  | 09/12/2005 | Receiver for wireless communication network with extended range  | WALLACE, MARK |
| <u>11248890</u> | Not Issued     | 30  | 10/11/2005 | Resource allocation for MIMO-OFDM communication systems  | WALLACE, MARK |
| <u>11297244</u> | Not Issued     | 30  | 12/07/2005 | Multiplexing of real time services and non-real time services for OFDM systems   | WALLACE, MARK |
| <u>11298639</u> | Not Issued     | 30  | 12/08/2005 | Multiplexing of real time services and non-real time services for OFDM systems   | WALLACE, MARK |
| <u>11328807</u> | Not Issued     | 71  | 01/09/2006 | Method and apparatus for transmitting data in a time division duplexed (TDD) communication system  | WALLACE, MARK |
| <u>11332059</u> | Not Issued     | 71  | 01/13/2006 | Multiple-access multiple-input multiple-output (MIMO) communication system   | WALLACE, MARK |
| <u>11379148</u> | Not Issued     | 30  | 04/18/2006 | Air Bag Deployment Ramp  | WALLACE, MARK |
| <u>11494126</u> | Not Issued     | 25  | 07/26/2006 | Multiple-access hybrid OFDM-CDMA system  | WALLACE, MARK |
| <u>11500852</u> | Not Issued     | 25  | 08/07/2006 | Time-domain transmit and receive processing with channel eigenmode decomposition for MIMO systems  | WALLACE, MARK |
| <u>29045286</u> | <u>D379589</u> | 150 | 10/16/1995 | CONTAINER  | WALLACE, MARK |

|                          |            |     |            |   |               |
|--------------------------|------------|-----|------------|---|---------------|
| <a href="#">60245677</a> | Not Issued | 159 | 11/06/2000 | Configurable open database connectivity conduit | WALLACE, MARK |
| <a href="#">60245678</a> | Not Issued | 159 | 11/06/2000 | Configurable open database connectivity conduit | WALLACE, MARK |
| <a href="#">60245713</a> | Not Issued | 159 | 11/06/2000 | Configurable open database connectivity conduit | WALLACE, MARK |

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# PALM INTRANET

## Inventor Name Search Result

Your Search was:

Last Name = WALLACE

First Name = MARK

| Application#             | Patent#    | Status | Date Filed | Title   | Inventor Name |
|--------------------------|------------|--------|------------|---|---------------|
| <a href="#">60261958</a> | Not Issued | 159    | 01/16/2001 | Continuous rod inspection system  | WALLACE, MARK |
| <a href="#">60354383</a> | Not Issued | 159    | 02/04/2002 | Vertical roll cutter  | WALLACE, MARK |
| <a href="#">60357875</a> | Not Issued | 159    | 02/19/2002 | Vertical orientation plunge cut roll sizer                                      | WALLACE, MARK |
| <a href="#">60421309</a> | Not Issued | 159    | 10/25/2002 | MIMO WLAN system  | WALLACE, MARK |
| <a href="#">60421428</a> | Not Issued | 159    | 10/25/2002 | Channel estimation and spatial processing for TDD MIMO systems                  | WALLACE, MARK |
| <a href="#">60421462</a> | Not Issued | 159    | 10/25/2002 | Channel calibration for a time division duplexed communication system           | WALLACE, MARK |
| <a href="#">60432419</a> | Not Issued | 159    | 12/11/2002 | Core end insert cap extractor   | WALLACE, MARK |
| <a href="#">60432440</a> | Not Issued | 159    | 12/10/2002 | Random access for wireless multiple-access communication systems                | WALLACE, MARK |
| <a href="#">60432617</a> | Not Issued | 159    | 12/10/2002 | Pilots for mimo communication systems   | WALLACE, MARK |
| <a href="#">60432626</a> | Not Issued | 159    | 12/10/2002 | Data detection and demodulation for wireless communication systems              | WALLACE, MARK |
| <a href="#">60432760</a> | Not Issued | 159    | 12/11/2002 | Derivation of eigenvectors for spatial processing in MIMO communication systems | WALLACE, MARK |
| <a href="#">60591729</a> | Not Issued | 159    | 07/28/2004 | Collaborative workplace system and methods                                      | WALLACE, MARK |
| <a href="#">60691756</a> | Not Issued | 159    | 06/16/2005 | Efficient filter weight computation for a MIMO system                           | WALLACE, MARK |
| <a href="#">60691871</a> | Not        | 159    | 06/16/2005 | Wireless communication network  | WALLACE, MARK |

|                 |                |     |            |  |                     |
|-----------------|----------------|-----|------------|--|---------------------|
|                 | Issued         |     |            | with extended coverage range   |                     |
| <u>60750183</u> | Not Issued     | 20  | 12/13/2005 | Range extension techniques for a wireless local area network   | WALLACE, MARK       |
| <u>60758344</u> | Not Issued     | 20  | 01/11/2006 | Sphere detection and rate selection for a mimo transmission  | WALLACE, MARK       |
| <u>60082048</u> | Not Issued     | 159 | 04/16/1998 | COROD INSPECTION SYSTEM  | WALLACE, MARK D.    |
| <u>10472870</u> | Not Issued     | 61  | 09/22/2003 | Injection molding method   | WALLACE, MARK A     |
| <u>11458104</u> | Not Issued     | 19  | 07/18/2006 | METHOD AND APPARATUS FOR SOLID-STATE BATTERY SINGULATION AND PASSIVATION FROM A SUBSTRATE                        | WALLACE, MARK A.    |
| <u>11458387</u> | Not Issued     | 25  | 07/18/2006 | METHOD AND APPARATUS FOR SOLID-STATE BATTERY SINGULATION AND PASSIVATION FROM A SUBSTRATE                        | WALLACE, MARK A.    |
| <u>11489744</u> | Not Issued     | 19  | 07/18/2006 | Method and apparatus for solid-state battery singulation and passivation from a substrate                        | WALLACE, MARK A.    |
| <u>60700425</u> | Not Issued     | 159 | 07/18/2005 | Method and apparatus for solid-state battery sigulation and passivation from a substrate                         | WALLACE, MARK A.    |
| <u>60807713</u> | Not Issued     | 20  | 07/18/2006 | METHOD AND APPARATUS FOR SOLID-STATE MICROBATTERY PHOTOLITHOGRAPHIC SINGULATION AND PASSIVATION FROM A SUBSTRATE | WALLACE, MARK A.    |
| <u>08542074</u> | <u>5713477</u> | 250 | 10/12/1995 | METHOD AND APPARATUS FOR CONTROLLING AND OPERATING A CONTAINER CRANE OR OTHER SIMILAR CRANES                     | WALLACE, MARK A.    |
| <u>08960643</u> | <u>5909817</u> | 150 | 10/30/1997 | METHOD AND APPARATUS FOR CONTROLLING AND OPERATING A CONTAINER CRANE OR OTHER SIMILAR CRANES                     | WALLACE, MARK A.    |
| <u>10073483</u> | Not Issued     | 168 | 05/06/2002 | Method of and system for allocating resources to resource requests based on application of persistence policies  | WALLACE, MARK AARON |

|                 |                |     |            |  |                     |
|-----------------|----------------|-----|------------|--|---------------------|
| <u>10074462</u> | Not Issued     | 41  | 02/11/2002 | Method of and system for allocating resources to resource requests   | WALLACE, MARK AARON |
| <u>10075051</u> | Not Issued     | 71  | 02/12/2002 | Method of and system for allocating resources to resource requests based on application of persistence policies      | WALLACE, MARK AARON |
| <u>10098957</u> | Not Issued     | 71  | 02/11/2002 | Switching system   | WALLACE, MARK AARON |
| <u>60355922</u> | Not Issued     | 159 | 02/11/2002 | Network switch   | WALLACE, MARK AARON |
| <u>11543617</u> | Not Issued     | 20  | 10/05/2006 | Tire pressure monitoring system plant learning   | WALLACE, MARK D.    |
| <u>08613133</u> | <u>5684337</u> | 150 | 03/08/1996 | KEYLESS VEHICLE ENTRY RECEIVER HAVING A DIAGNOSTIC MODE OF OPERATION WHEREIN CODE COMPARISON IS NOT PERFORMED        | WALLACE, MARK D.    |
| <u>09080365</u> | <u>6191703</u> | 150 | 03/31/1998 | REMOTE CONVENIENCE SYSTEM AND METHOD WITH PROXIMITY-BASED DISABLEMENT FOR PREVENTING INADVERTENT FUNCTION ACTIVATION | WALLACE, MARK D.    |
| <u>09260222</u> | <u>6335576</u> | 150 | 03/01/1999 | REMOTE KEYLESS ENTRY RECEIVER HAVING CORRECTLY MATCHED TRANSMITTERS  | WALLACE, MARK D.    |
| <u>60129655</u> | Not Issued     | 159 | 04/16/1999 | CONTINUOUS ROD INSPECTION SYSTEM   | WALLACE, MARK D.    |
| <u>11216908</u> | Not Issued     | 30  | 08/31/2005 | USB port incorporated into vehicle access components   | WALLACE, MARK DEAN  |
| <u>60738362</u> | Not Issued     | 20  | 11/18/2005 | TPMS plant learning LF data/RF data  | WALLACE, MARK DEAN  |
| <u>60607400</u> | Not Issued     | 159 | 09/03/2004 | USB enabled vehicle access   | WALLACE, MARK DEAN  |
| <u>10714018</u> | Not Issued     | 30  | 11/14/2003 | System and method for user interface automation  | WALLACE, MARK E.    |
| <u>11221631</u> | Not Issued     | 30  | 09/08/2005 | Xforms processing of large data sets   | WALLACE, MARK E.    |
| <u>11322037</u> | Not Issued     | 20  | 12/29/2005 | Method, system and software tool for processing an electronic form   | WALLACE, MARK E.    |
| <u>06439913</u> | <u>4502176</u> | 250 | 01/24/1983 | BOTTLE BRUSH/GLASS CLEANER   | WALLACE, MARK E.    |

|                 |                |     |            |   |                     |
|-----------------|----------------|-----|------------|---|---------------------|
| <u>07380130</u> | <u>5019980</u> | 150 | 07/14/1989 | GENERAL PURPOSE<br>AVIONICS DISPLAY MONITOR   | WALLACE, MARK<br>L. |
| <u>08386746</u> | Not<br>Issued  | 161 | 02/10/1995 | WORKPIECE SUPPORT<br>DEVICE   | WALLACE, MARK<br>P. |
| <u>07225877</u> | Not<br>Issued  | 166 | 08/01/1988 | CEMENT BLOCK MOLDING<br>MACHINE HAVING<br>CONTINUOUSLY DRIVEN<br>VIBRATING SHAFT<br>MECHANISM WHICH CAN BE<br>PROGRAMMABLY VIBRATED<br>AND METHOD OF<br>PROGRAMMABLY VIBRATING<br>SUCH MACHINES   | WALLACE, MARK<br>P. |
| <u>07479235</u> | <u>4978488</u> | 150 | 02/12/1990 | CONCRETE BLOCK MOLDING<br>MACHINE HAVING<br>CONTINUOUSLY DRIVEN<br>VIBRATING SHAFT<br>MECHANISM WHICH CAN BE<br>PROGRAMMABLY VIBRATED<br>AND METHOD OF<br>PROGRAMMABLY VIBRATING<br>SUCH MACHINES | WALLACE, MARK<br>P. |
| <u>08387255</u> | <u>5558269</u> | 150 | 02/13/1995 | ANGULAR POSITIONING<br>DEVICES FOR STAINED<br>GLASS CRAFT ITEMS   | WALLACE, MARK<br>P. |
| <u>08493564</u> | Not<br>Issued  | 161 | 06/22/1995 | DEVICE FOR CUTTING GLASS  | WALLACE, MARK<br>P. |
| <u>60196796</u> | Not<br>Issued  | 159 | 04/13/2000 | Methods for measuring<br>enhancement of HIV-1 antigen-<br>specific CD4+T Cell memory in<br>subjects with chronic HIV-1<br>infection receiving an HIV-1<br>immunogen                               | WALLACE, MARK<br>R. |
| <u>10323249</u> | <u>7024166</u> | 150 | 12/18/2002 | TRANSMISSION DIVERSITY<br>SYSTEMS   | WALLACE, MARK<br>S  |

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| WALLACE          | MARK              |               |

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**Inventor Name Search Result**

Your Search was:

Last Name = WALLACE

First Name = MARK

| Application#    | Patent#    | Status | Date Filed | Title   | Inventor Name    |
|-----------------|------------|--------|------------|---|------------------|
| <u>09829570</u> | 6542488    | 150    | 04/09/2001 | METHODS AND APPARATUSES FOR FAST POWER CONTROL OF SIGNALS TRANSMITTED ON A MULTIPLE ACCESS CHANNEL                                  | WALLACE, MARK S. |
| <u>09848937</u> | 7042856    | 150    | 05/03/2001 | METHOD AND APPARATUS FOR CONTROLLING UPLINK TRANSMISSIONS OF A WIRELESS COMMUNICATION SYSTEM  | WALLACE, MARK S. |
| <u>09859346</u> | 7047016    | 150    | 05/16/2001 | METHOD AND APPARATUS FOR ALLOCATING UPLINK RESOURCES IN A MULTIPLE-INPUT MULTIPLE-OUTPUT (MIMO) COMMUNICATION SYSTEM                | WALLACE, MARK S. |
| <u>09860274</u> | Not Issued | 41     | 05/17/2001 | Method and apparatus for processing data for transmission in a multi-channel communication system using selective channel inversion | WALLACE, MARK S. |
| <u>10383855</u> | Not Issued | 41     | 03/07/2003 | Method and apparatus for providing wireless communication system synchronization  | WALLACE, MARK S. |
| <u>10448801</u> | Not Issued | 41     | 05/31/2003 | Closed-loop rate control for a multi-channel communication system   | WALLACE, MARK S. |
| <u>10610446</u> | Not Issued | 30     | 06/30/2003 | Pilots for MIMO communication systems   | WALLACE, MARK S. |
| <u>10650295</u> | 7065144    | 150    | 08/27/2003 | FREQUENCY-INDEPENDENT SPATIAL PROCESSING FOR WIDEBAND MISO AND MIMO   | WALLACE, MARK S. |

|                 |                |     |            |   |                  |
|-----------------|----------------|-----|------------|---|------------------|
|                 |                |     |            | SYSTEMS   |                  |
| <u>10674038</u> | <u>7002900</u> | 150 | 09/29/2003 | TRANSMIT DIVERSITY PROCESSING FOR A MULTI-ANTENNA COMMUNICATION SYSTEM                        | WALLACE, MARK S. |
| <u>10682160</u> | Not Issued     | 71  | 10/08/2003 | Receiver spatial processing for eigenmode transmission in a MIMO system                       | WALLACE, MARK S. |
| <u>10692833</u> | Not Issued     | 30  | 10/23/2003 | Data detection and demodulation for wireless communication systems                            | WALLACE, MARK S. |
| <u>10693169</u> | Not Issued     | 30  | 10/23/2003 | Channel calibration for a time division duplexed communication system                         | WALLACE, MARK S. |
| <u>10693171</u> | Not Issued     | 95  | 10/23/2003 | CHANNEL ESTIMATION AND SPATIAL PROCESSING FOR TDD MIMO SYSTEMS                                | WALLACE, MARK S. |
| <u>10693419</u> | Not Issued     | 30  | 10/23/2003 | MIMO WLAN system  | WALLACE, MARK S. |
| <u>10693429</u> | Not Issued     | 30  | 10/23/2003 | MIMO system with multiple spatial multiplexing modes  | WALLACE, MARK S. |
| <u>10693532</u> | Not Issued     | 41  | 10/23/2003 | Random access for wireless multiple-access communication systems                              | WALLACE, MARK S. |
| <u>10693535</u> | Not Issued     | 30  | 10/23/2003 | Multi-mode terminal in a wireless MIMO system   | WALLACE, MARK S. |
| <u>10719802</u> | Not Issued     | 30  | 11/21/2003 | Multi-antenna transmission for spatial division multiple access                               | WALLACE, MARK S. |
| <u>10729070</u> | Not Issued     | 30  | 12/04/2003 | Derivation of eigenvectors for spatial processing in MIMO communication systems               | WALLACE, MARK S. |
| <u>10781951</u> | Not Issued     | 30  | 02/18/2004 | Transmit diversity and spatial spreading for an OFDM-based multi-antenna communication system | WALLACE, MARK S. |
| <u>10783175</u> | Not Issued     | 30  | 02/19/2004 | Calibration of downlink and uplink channel responses in a wireless MIMO communication system  | WALLACE, MARK S. |
| <u>10794918</u> | Not Issued     | 30  | 03/05/2004 | Transmit diversity and spatial spreading for an OFDM-based multi-antenna communication system | WALLACE, MARK S. |
| <u>10821390</u> | Not Issued     | 30  | 04/09/2004 | Spatial processing with steering matrices for pseudo-random                                   | WALLACE, MARK S. |

|                 |                |     |            |   |                  |
|-----------------|----------------|-----|------------|---|------------------|
|                 |                |     |            | transmit steering in a multi-antenna communication system   |                  |
| <u>10830907</u> | Not Issued     | 30  | 04/22/2004 | Iterative eigenvector computation for a MIMO communication system   | WALLACE, MARK S. |
| <u>10882491</u> | <u>7110463</u> | 150 | 06/30/2004 | EFFICIENT COMPUTATION OF SPATIAL FILTER MATRICES FOR STEERING TRANSMIT DIVERSITY IN A MIMO COMMUNICATION SYSTEM | WALLACE, MARK S. |
| <u>10888804</u> | Not Issued     | 30  | 07/09/2004 | Refrigeration source for a cryoablation catheter  | WALLACE, MARK S. |
| <u>10892732</u> | Not Issued     | 30  | 07/15/2004 | Unified MIMO transmission and reception   | WALLACE, MARK S. |
| <u>10896277</u> | Not Issued     | 30  | 07/20/2004 | Adaptive pilot insertion for a MIMO-OFDM system   | WALLACE, MARK S. |
| <u>10964332</u> | Not Issued     | 30  | 10/13/2004 | Method, apparatus, and system for medium access control   | WALLACE, MARK S. |
| <u>11008865</u> | Not Issued     | 71  | 12/09/2004 | Spatial spreading in a multi-antenna communication system   | WALLACE, MARK S. |
| <u>11009200</u> | Not Issued     | 71  | 12/09/2004 | Data transmission with spatial spreading in a mimo communication system   | WALLACE, MARK S. |
| <u>11009824</u> | Not Issued     | 61  | 12/09/2004 | Broadcast transmission with spatial spreading in a multi-antenna communication system                           | WALLACE, MARK S. |
| <u>11042126</u> | Not Issued     | 30  | 01/24/2005 | Receiver structures for spatial spreading with space-time or space-frequency transmit diversity                 | WALLACE, MARK S. |
| <u>11042921</u> | Not Issued     | 30  | 01/24/2005 | Parser for multiple data streams in a communication system  | WALLACE, MARK S. |
| <u>11045781</u> | Not Issued     | 30  | 01/27/2005 | Channel calibration for a time division duplexed communication system   | WALLACE, MARK S. |
| <u>11047917</u> | Not Issued     | 71  | 01/31/2005 | Power-efficient multi-antenna wireless device   | WALLACE, MARK S. |
| <u>11050897</u> | Not Issued     | 30  | 02/03/2005 | Continuous beamforming for a MIMO-OFDM system   | WALLACE, MARK S. |
| <u>11096839</u> | Not Issued     | 30  | 03/31/2005 | Efficient computation for eigenvalue decomposition and singular value decomposition of matrices                 | WALLACE, MARK S. |
| <u>11158494</u> | Not            | 30  | 06/21/2005 | Wireless communication network  | WALLACE, MARK    |

|                          |            |    |            |  |                  |
|--------------------------|------------|----|------------|--|------------------|
|                          | Issued     |    |            | with extended coverage range   | S.               |
| <a href="#">11158586</a> | Not Issued | 30 | 06/21/2005 | Efficient filter weight computation for a MIMO system  | WALLACE, MARK S. |
| <a href="#">11217818</a> | Not Issued | 30 | 09/01/2005 | Spatial spreading with space-time and space-frequency transmit diversity schemes for a wireless communication system | WALLACE, MARK S. |
| <a href="#">11250353</a> | Not Issued | 30 | 10/13/2005 | Transmit diversity processing for a multi-antenna communication system   | WALLACE, MARK S. |
| <a href="#">11280596</a> | Not Issued | 30 | 11/15/2005 | Eigenvalue decomposition and singular value decomposition of matrices using jacobi rotation                          | WALLACE, MARK S. |
| <a href="#">11281298</a> | Not Issued | 30 | 11/16/2005 | Closed-loop rate control for a MIMO communication system   | WALLACE, MARK S. |
| <a href="#">11301790</a> | Not Issued | 93 | 12/12/2005 | METHOD AND APPARATUS FOR ALLOCATING UPLINK RESOURCES IN A MULTIPLE-INPUT MULTIPLE-OUTPUT (MIMO) COMMUNICATION SYSTEM | WALLACE, MARK S. |
| <a href="#">11345976</a> | Not Issued | 30 | 02/01/2006 | Reduced complexity detection and decoding for a receiver in a communication system                                   | WALLACE, MARK S. |
| <a href="#">11349367</a> | Not Issued | 20 | 02/06/2006 | Sphere detection and rate selection for a MIMO transmission  | WALLACE, MARK S. |
| <a href="#">11354669</a> | Not Issued | 41 | 02/14/2006 | Transmission diversity systems   | WALLACE, MARK S. |
| <a href="#">11417946</a> | Not Issued | 25 | 05/03/2006 | Method and apparatus for controlling uplink transmissions of a wireless communication system                         | WALLACE, MARK S. |
| <a href="#">11471415</a> | Not Issued | 25 | 06/19/2006 | Frequency-independent spatial processing for wideband MISO and MIMO systems  | WALLACE, MARK S. |

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## Inventor Name Search Result

Your Search was:

Last Name = WALLACE

First Name = MARK

| Application#             | Patent#    | Status | Date Filed | Title   | Inventor Name    |
|--------------------------|------------|--------|------------|---|------------------|
| <a href="#">11481705</a> | Not Issued | 25     | 07/05/2006 | Reduced complexity beam-steered MIMO OFDM system  | WALLACE, MARK S. |
| <a href="#">11520095</a> | Not Issued | 25     | 09/12/2006 | Efficient computation of spatial filter matrices for steering transmit diversity in a MIMO communication system       | WALLACE, MARK S. |
| <a href="#">60511750</a> | Not Issued | 159    | 10/15/2003 | Method and apparatus for providing interoperability and backward compatibility in wireless communication systems      | WALLACE, MARK S. |
| <a href="#">60511904</a> | Not Issued | 159    | 10/15/2003 | Method, apparatus, and system for medium access control in a high performance wireless LAN environment                | WALLACE, MARK S. |
| <a href="#">60569018</a> | Not Issued | 159    | 05/07/2004 | Power-efficient multi-antenna wireless device   | WALLACE, MARK S. |
| <a href="#">60576719</a> | Not Issued | 159    | 06/02/2004 | Continuous beamforming for a MIMO-OFDM system   | WALLACE, MARK S. |
| <a href="#">60578656</a> | Not Issued | 159    | 06/09/2004 | Continuous beamforming for a MIMO-OFDM system   | WALLACE, MARK S. |
| <a href="#">60586841</a> | Not Issued | 159    | 07/08/2004 | Method and apparatus for distributing communication resources among multiple users                                    | WALLACE, MARK S. |
| <a href="#">60600960</a> | Not Issued | 159    | 08/11/2004 | Method, apparatus, and system for wireless communications   | WALLACE, MARK S. |
| <a href="#">60607371</a> | Not Issued | 159    | 09/03/2004 | Steering diversity with space-time transmit diversity for a wireless communication system                             | WALLACE, MARK S. |
| <a href="#">60608226</a> | Not Issued | 159    | 09/08/2004 | Steering diversity with space-time and space-frequency transmit diversity schemes for a wireless communication system | WALLACE, MARK S. |
| <a href="#">60628324</a> | Not        | 159    | 11/15/2004 | Eigenvalue decomposition and  | WALLACE, MARK    |

|                 |                |     |            |   |                  |
|-----------------|----------------|-----|------------|---|------------------|
|                 | Issued         |     |            | singular value decomposition of matrices using jacobi rotation                              | S.               |
| <u>60628440</u> | Not Issued     | 159 | 11/15/2004 | Eigenvalue decomposition and singular value decomposition of matrices using Jacobi rotation | WALLACE, MARK S. |
| <u>60686645</u> | Not Issued     | 159 | 06/01/2005 | Range extended acquisition and demodulation in wireless networks                            | WALLACE, MARK S. |
| <u>60691706</u> | Not Issued     | 159 | 06/16/2005 | Method and apparatus for detection, acquisition and demodulation for range extended mode    | WALLACE, MARK S. |
| <u>60738159</u> | Not Issued     | 20  | 11/18/2005 | Reduced complexity iterative detection and decoding for MIMO-OFDM system                    | WALLACE, MARK S. |
| <u>60792027</u> | Not Issued     | 20  | 04/12/2006 | Power saving for peer-to-peer synchronization between MIMO stations                         | WALLACE, MARK S. |
| <u>60792142</u> | Not Issued     | 20  | 04/13/2006 | Closed-loop rate control for a MIMO communication system                                    | WALLACE, MARK S. |
| <u>60792143</u> | Not Issued     | 20  | 04/13/2006 | MIMO OFDM sample clock offset correction  | WALLACE, MARK S. |
| <u>60792874</u> | Not Issued     | 20  | 04/17/2006 | MIMO OFDM MMSE spatial receiver noise floor estimator                                       | WALLACE, MARK S. |
| <u>60794615</u> | Not Issued     | 20  | 04/24/2006 | Reduced complexity steered MIMO OFDM systems  | WALLACE, MARK S. |
| <u>60802627</u> | Not Issued     | 20  | 05/22/2006 | Single-burst acquisition for wireless communication system                                  | WALLACE, MARK S. |
| <u>60802630</u> | Not Issued     | 20  | 05/22/2006 | SNR estimator for MIMO OFDM using QAM hard decisions  | WALLACE, MARK S. |
| <u>60802632</u> | Not Issued     | 20  | 05/22/2006 | Decision-directed phase correction for SISO and MIMO OFDM systems                           | WALLACE, MARK S. |
| <u>60802634</u> | Not Issued     | 20  | 05/22/2006 | Calibration correction of hardware changes in wireless communication systems                | WALLACE, MARK S. |
| <u>60802682</u> | Not Issued     | 20  | 05/22/2006 | Jacobi iterations for eigenvector decomposition and feedback reduction                      | WALLACE, MARK S. |
| <u>60811245</u> | Not Issued     | 20  | 06/05/2006 | Method and system for providing beamforming feedback in wireless communication systems      | WALLACE, MARK S. |
| <u>09165858</u> | <u>6252865</u> | 150 | 10/02/1998 | METHODS AND APPARATUSES FOR FAST POWER CONTROL OF   | WALLACE, MARK S. |

|                 |                |     |            |  |                  |
|-----------------|----------------|-----|------------|--|------------------|
|                 |                |     |            | SIGNALS TRANSMITTED ON A MULTIPLE ACCESS CHANNEL                                 |                  |
| <u>09173572</u> | <u>6256301</u> | 150 | 10/15/1998 | RESERVATION MULTIPLE ACCESS  | WALLACE, MARK S. |
| <u>09206037</u> | <u>6590881</u> | 150 | 12/04/1998 | METHOD AND APPARATUS FOR PROVIDING WIRELESS COMMUNICATION SYSTEM SYNCHRONIZATION | WALLACE, MARK S. |
| <u>10201617</u> | Not Issued     | 71  | 07/22/2002 | Apparatus and method for content and context processing of web service traffic   | WALLACE, MARK T. |
| <u>10850132</u> | Not Issued     | 30  | 05/19/2004 | Apparatus and method for web service message correlation                         | WALLACE, MARK T. |
| <u>11034239</u> | Not Issued     | 25  | 01/12/2005 | Passive, portable blood storage system   | WALLACE, MARK W. |
| <u>11486441</u> | Not Issued     | 19  | 07/13/2006 | Phase change materials and use in a thermally stable shipping containment device | WALLACE, MARK W. |
| <u>11486442</u> | Not Issued     | 19  | 07/13/2006 | Thermally stable container for transporting blood products                       | WALLACE, MARK W. |
| <u>60388424</u> | Not Issued     | 159 | 06/12/2002 | Variations on thermal insulating panels and cavities                             | WALLACE, MARK W. |
| <u>60394334</u> | Not Issued     | 159 | 07/08/2002 | Thermally insulated container  | WALLACE, MARK W. |
| <u>60406859</u> | Not Issued     | 159 | 08/29/2002 | Thermally insulated container with PCM seed layer                                | WALLACE, MARK W. |
| <u>60535844</u> | Not Issued     | 159 | 01/12/2004 | Passive, portable blood storage system   | WALLACE, MARK W. |
| <u>08120162</u> | Not Issued     | 166 | 09/10/1993 | FLOATING INSULATOR TOP FOR PALLET SIZED CONTAINER                                | WALLACE, MARK W. |
| <u>08135880</u> | Not Issued     | 166 | 10/13/1993 | FINGERED LATCH FOR PALLET-SIZED CONTAINER  | WALLACE, MARK W. |
| <u>08136318</u> | Not Issued     | 161 | 10/13/1993 | METHOD AND APPARATUS FOR INSULATING PALLET SIZED CONTAINERS                      | WALLACE, MARK W. |
| <u>08178189</u> | <u>5558241</u> | 150 | 01/06/1994 | CRYOTRANSPORT CHAMBER  | WALLACE, MARK W. |
| <u>08339088</u> | <u>5548972</u> | 150 | 11/07/1994 | FLOATING INSULATOR TOP FOR PALLET SIZED CONTAINER                                | WALLACE, MARK W. |
| <u>08372192</u> | <u>5601202</u> | 150 | 01/13/1995 | TRANSPORT CHAMBER  | WALLACE, MARK W. |

|                 |                |     |            |  |                     |
|-----------------|----------------|-----|------------|--|---------------------|
| <u>08523368</u> | <u>5539956</u> | 150 | 09/05/1995 | FINGERED LATCH FOR<br>PALLET-SIZED CONTAINER           | WALLACE, MARK<br>W. |
| <u>08546105</u> | <u>5642923</u> | 150 | 10/20/1995 | REMOVABLE SHELF SYSTEM<br>FOR A TRANSPORT<br>CONTAINER | WALLACE, MARK<br>W. |
| <u>08695610</u> | <u>5711444</u> | 250 | 08/12/1996 | TRANSPORT CHAMBER                                      | WALLACE, MARK<br>W. |

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## Inventor Name Search Result

Your Search was:

Last Name = KETCHUM

First Name = JOHN

| Application#             | Patent#                 | Status | Date Filed | Title   | Inventor Name    |
|--------------------------|-------------------------|--------|------------|---|------------------|
| <a href="#">60025873</a> | Not Issued              | 159    | 09/13/1996 | SYSTEM AND METHOD FOR THE ANALYSIS OF A CDMA COMMUNICATION NETWORK  | KETCHUM, JOHN    |
| <a href="#">60046225</a> | Not Issued              | 159    | 05/12/1997 | SYSTEM AND METHOD FOR PROVIDING AREA-BASED SERVICES IN A WIRELESS COMMUNICATION SYSTEM                                | KETCHUM, JOHN    |
| <a href="#">60421462</a> | Not Issued              | 159    | 10/25/2002 | Channel calibration for a time division duplexed communication system   | KETCHUM, JOHN    |
| <a href="#">60607371</a> | Not Issued              | 159    | 09/03/2004 | Steering diversity with space-time transmit diversity for a wireless communication system                             | KETCHUM, JOHN    |
| <a href="#">60608226</a> | Not Issued              | 159    | 09/08/2004 | Steering diversity with space-time and space-frequency transmit diversity schemes for a wireless communication system | KETCHUM, JOHN    |
| <a href="#">60628324</a> | Not Issued              | 159    | 11/15/2004 | Eigenvalue decomposition and singular value decomposition of matrices using jacobi rotation                           | KETCHUM, JOHN    |
| <a href="#">60628440</a> | Not Issued              | 159    | 11/15/2004 | Eigenvalue decomposition and singular value decomposition of matrices using Jacobi rotation                           | KETCHUM, JOHN    |
| <a href="#">60691756</a> | Not Issued              | 159    | 06/16/2005 | Efficient filter weight computation for a MIMO system   | KETCHUM, JOHN    |
| <a href="#">06573239</a> | Not Issued              | 161    | 01/23/1984 | CIRCUIT TESTER EMPLOYING PARALLEL DATA COMPRESSION  | KETCHUM, JOHN J. |
| <a href="#">06061853</a> | <a href="#">4258924</a> | 150    | 07/30/1979 | SOCCER TRAINING APPARATUS   | KETCHUM, JOHN L. |
| <a href="#">06667800</a> | <a href="#">4553751</a> | 150    | 11/02/1984 | REBOUND APPARATUS   | KETCHUM, JOHN L. |

|                 |                |     |            |  |                   |
|-----------------|----------------|-----|------------|--|-------------------|
| <u>09495967</u> | <u>6585263</u> | 150 | 02/02/2000 | DECELERATION DRUM ASSEMBLY CONTAINING AIR GUIDES   | KETCHUM, JOHN LEE |
| <u>11368980</u> | Not Issued     | 30  | 03/06/2006 | Folder with signature removal and slowdown process   | KETCHUM, JOHN LEE |
| <u>09277789</u> | <u>6439562</u> | 150 | 03/29/1999 | PRE-CYLINDER SIGNATURE COLLECTOR   | KETCHUM, JOHN LEE |
| <u>09737602</u> | <u>6731668</u> | 150 | 01/05/2001 | METHOD AND SYSTEM FOR INCREASED BANDWIDTH EFFICIENCY IN MULTIPLE INPUT - MULTIPLE OUTPUT CHANNELS  | KETCHUM, JOHN W.  |
| <u>09816481</u> | <u>6771706</u> | 150 | 03/23/2001 | METHOD AND APPARATUS FOR UTILIZING CHANNEL STATE INFORMATION IN A WIRELESS COMMUNICATION SYSTEM  | KETCHUM, JOHN W.  |
| <u>09829570</u> | <u>6542488</u> | 150 | 04/09/2001 | METHODS AND APPARATUSES FOR FAST POWER CONTROL OF SIGNALS TRANSMITTED ON A MULTIPLE ACCESS CHANNEL   | KETCHUM, JOHN W.  |
| <u>09854235</u> | <u>6785341</u> | 150 | 05/11/2001 | METHOD AND APPARATUS FOR PROCESSING DATA IN A MULTIPLE-INPUT MULTIPLE-OUTPUT (MIMO) COMMUNICATION SYSTEM UTILIZING CHANNEL STATE INFORMATION | KETCHUM, JOHN W.  |
| <u>09860274</u> | Not Issued     | 41  | 05/17/2001 | Method and apparatus for processing data for transmission in a multi-channel communication system using selective channel inversion          | KETCHUM, JOHN W.  |
| <u>09881610</u> | <u>7072413</u> | 150 | 06/14/2001 | METHOD AND APPARATUS FOR PROCESSING DATA FOR TRANSMISSION IN A MULTI-CHANNEL COMMUNICATION SYSTEM USING SELECTIVE CHANNEL INVERSION          | KETCHUM, JOHN W.  |
| <u>09892379</u> | <u>6751187</u> | 150 | 06/26/2001 | METHOD AND APPARATUS FOR PROCESSING DATA FOR TRANSMISSION IN A MULTI-CHANNEL COMMUNICATION SYSTEM USING SELECTIVE CHANNEL TRANSMISSION       | KETCHUM, JOHN W.  |

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|-----------------|----------------|-----|------------|--|------------------|
| <u>09956449</u> | <u>7006848</u> | 150 | 09/18/2001 | METHOD AND APPARATUS FOR UTILIZING CHANNEL STATE INFORMATION IN A WIRELESS COMMUNICATION SYSTEM                      | KETCHUM, JOHN W. |
| <u>09978337</u> | <u>6956907</u> | 150 | 10/15/2001 | METHOD AND APPARATUS FOR DETERMINING POWER ALLOCATION IN A MIMO COMMUNICATION SYSTEM                                 | KETCHUM, JOHN W. |
| <u>09982280</u> | Not Issued     | 83  | 10/18/2001 | Multiple-access hybrid OFDM-CDMA system  | KETCHUM, JOHN W. |
| <u>10001178</u> | Not Issued     | 93  | 11/02/2001 | ADAPTIVE RATE CONTROL FOR OFDM COMMUNICATION SYSTEM  | KETCHUM, JOHN W. |
| <u>10005104</u> | Not Issued     | 94  | 12/03/2001 | ITERATIVE DETECTION AND DECODING FOR A MIMO-OFDM SYSTEM  | KETCHUM, JOHN W. |
| <u>10017308</u> | <u>6760388</u> | 150 | 12/07/2001 | TIME-DOMAIN TRANSMIT AND RECEIVE PROCESSING WITH CHANNEL EIGEN-MODE DECOMPOSITON FOR MIMO SYSTEMS                    | KETCHUM, JOHN W. |
| <u>10042529</u> | <u>7020110</u> | 150 | 01/08/2002 | RESOURCE ALLOCATION FOR MIMO-OFDM COMMUNICATION SYSTEMS  | KETCHUM, JOHN W. |
| <u>10056275</u> | <u>7020482</u> | 150 | 01/23/2002 | REALLOCATION OF EXCESS POWER FOR FULL CHANNEL-STATE INFORMATION (CSI) MULTIPLE-INPUT, MULTIPLE-OUTPUT (MIMO) SYSTEMS | KETCHUM, JOHN W. |
| <u>10079970</u> | <u>7076263</u> | 150 | 02/19/2002 | POWER CONTROL FOR PARTIAL CHANNEL-STATE INFORMATION (CSI) MULTIPLE-INPUT, MULTIPLE-OUTPUT (MIMO) SYSTEMS             | KETCHUM, JOHN W. |
| <u>10108616</u> | Not Issued     | 61  | 03/27/2002 | Precoding for a multipath channel in a MIMO system   | KETCHUM, JOHN W. |
| <u>10179439</u> | <u>7095709</u> | 150 | 06/24/2002 | DIVERSITY TRANSMISSION MODES FOR MIMO OFDM COMMUNICATION SYSTEMS   | KETCHUM, JOHN W. |
| <u>10179442</u> | Not Issued     | 41  | 06/24/2002 | Signal processing with channel eigenmode decomposition and   | KETCHUM, JOHN W. |

|                          |                         |     |            |   |                  |
|--------------------------|-------------------------|-----|------------|---|------------------|
|                          |                         |     |            | channel inversion for MIMO systems  |                  |
| <a href="#">10228393</a> | <a href="#">6940917</a> | 150 | 08/27/2002 | BEAM-STEERING AND BEAM-FORMING FOR WIDEBAND MIMO/MISO SYSTEMS               | KETCHUM, JOHN W. |
| <a href="#">10229209</a> | Not Issued              | 71  | 08/27/2002 | Coded MIMO systems with selective channel inversion applied per eigenmode   | KETCHUM, JOHN W. |
| <a href="#">10299374</a> | Not Issued              | 120 | 11/18/2002 | Rate-compatible LDPC codes  | KETCHUM, JOHN W. |
| <a href="#">10375162</a> | Not Issued              | 30  | 02/25/2003 | OFDM communication system with multiple OFDM symbol sizes                   | KETCHUM, JOHN W. |
| <a href="#">10448801</a> | Not Issued              | 41  | 05/31/2003 | Closed-loop rate control for a multi-channel communication system           | KETCHUM, JOHN W. |
| <a href="#">10610446</a> | Not Issued              | 30  | 06/30/2003 | Pilots for MIMO communication systems                                       | KETCHUM, JOHN W. |
| <a href="#">10650295</a> | <a href="#">7065144</a> | 150 | 08/27/2003 | FREQUENCY-INDEPENDENT SPATIAL PROCESSING FOR WIDEBAND MISO AND MIMO SYSTEMS | KETCHUM, JOHN W. |
| <a href="#">10674038</a> | <a href="#">7002900</a> | 150 | 09/29/2003 | TRANSMIT DIVERSITY PROCESSING FOR A MULTI-ANTENNA COMMUNICATION SYSTEM      | KETCHUM, JOHN W. |
| <a href="#">10682160</a> | Not Issued              | 71  | 10/08/2003 | Receiver spatial processing for eigenmode transmission in a MIMO system     | KETCHUM, JOHN W. |
| <a href="#">10693169</a> | Not Issued              | 30  | 10/23/2003 | Channel calibration for a time division duplexed communication system       | KETCHUM, JOHN W. |
| <a href="#">10693171</a> | Not Issued              | 95  | 10/23/2003 | CHANNEL ESTIMATION AND SPATIAL PROCESSING FOR TDD MIMO SYSTEMS              | KETCHUM, JOHN W. |
| <a href="#">10693419</a> | Not Issued              | 30  | 10/23/2003 | MIMO WLAN system  | KETCHUM, JOHN W. |
| <a href="#">10693429</a> | Not Issued              | 30  | 10/23/2003 | MIMO system with multiple spatial multiplexing modes                        | KETCHUM, JOHN W. |
| <a href="#">10693532</a> | Not Issued              | 41  | 10/23/2003 | Random access for wireless multiple-access communication systems            | KETCHUM, JOHN W. |
| <a href="#">10693535</a> | Not Issued              | 30  | 10/23/2003 | Multi-mode terminal in a wireless MIMO system                               | KETCHUM, JOHN W. |



|                          |               |    |            |  |                     |
|--------------------------|---------------|----|------------|--|---------------------|
| <a href="#">10696208</a> | Not<br>Issued | 30 | 10/29/2003 | Multiple-access hybrid OFDM-<br>CDMA system                        | KETCHUM, JOHN<br>W. |
| <a href="#">10719802</a> | Not<br>Issued | 30 | 11/21/2003 | Multi-antenna transmission for<br>spatial division multiple access | KETCHUM, JOHN<br>W. |

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**Inventor Name Search Result**

Your Search was:

Last Name = KETCHUM

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| Application#             | Patent#                 | Status | Date Filed | Title  | Inventor Name    |
|--------------------------|-------------------------|--------|------------|--|------------------|
| <a href="#">10725904</a> | Not Issued              | 30     | 12/01/2003 | Method and apparatus for providing an efficient control channel structure in a wireless communication system | KETCHUM, JOHN W. |
| <a href="#">10729070</a> | Not Issued              | 30     | 12/04/2003 | Derivation of eigenvectors for spatial processing in MIMO communication systems                              | KETCHUM, JOHN W. |
| <a href="#">10781951</a> | Not Issued              | 30     | 02/18/2004 | Transmit diversity and spatial spreading for an OFDM-based multi-antenna communication system                | KETCHUM, JOHN W. |
| <a href="#">10783175</a> | Not Issued              | 30     | 02/19/2004 | Calibration of downlink and uplink channel responses in a wireless MIMO communication system                 | KETCHUM, JOHN W. |
| <a href="#">10786856</a> | Not Issued              | 30     | 02/24/2004 | Method and apparatus for utilizing channel state information in a wireless communication system              | KETCHUM, JOHN W. |
| <a href="#">10794918</a> | Not Issued              | 30     | 03/05/2004 | Transmit diversity and spatial spreading for an OFDM-based multi-antenna communication system                | KETCHUM, JOHN W. |
| <a href="#">10810442</a> | Not Issued              | 30     | 03/26/2004 | Method and system for increased bandwidth efficiency in multiple input - multiple output channels            | KETCHUM, JOHN W. |
| <a href="#">10830907</a> | Not Issued              | 30     | 04/22/2004 | Iterative eigenvector computation for a MIMO communication system  | KETCHUM, JOHN W. |
| <a href="#">10884305</a> | <a href="#">7116725</a> | 150    | 07/02/2004 | TIME-DOMAIN TRANSMIT AND RECEIVE PROCESSING WITH CHANNEL EIGEN-MODE DECOMPOSITION FOR MIMO SYSTEMS           | KETCHUM, JOHN W. |

|                 |                |     |            |  |                  |
|-----------------|----------------|-----|------------|--|------------------|
| <u>10888804</u> | Not Issued     | 30  | 07/09/2004 | Refrigeration source for a cryoablation catheter   | KETCHUM, JOHN W. |
| <u>10903066</u> | Not Issued     | 30  | 07/30/2004 | Method and apparatus for utilizing channel state information in a wireless communication system  | KETCHUM, JOHN W. |
| <u>10903813</u> | <u>7054378</u> | 150 | 07/29/2004 | METHOD AND APPARATUS FOR PROCESSING DATA IN A MULTIPLE-INPUT MULTIPLE-OUTPUT (MIMO) COMMUNICATION SYSTEM UTILIZING CHANNEL STATE INFORMATION | KETCHUM, JOHN W. |
| <u>10964237</u> | Not Issued     | 30  | 10/13/2004 | Wireless LAN protocol stack  | KETCHUM, JOHN W. |
| <u>10964320</u> | Not Issued     | 30  | 10/13/2004 | Method, apparatus, and system for multiplexing protocol data units   | KETCHUM, JOHN W. |
| <u>10964330</u> | Not Issued     | 30  | 10/13/2004 | High speed media access control with legacy system interoperability  | KETCHUM, JOHN W. |
| <u>10964332</u> | Not Issued     | 30  | 10/13/2004 | Method, apparatus, and system for medium access control  | KETCHUM, JOHN W. |
| <u>11008865</u> | Not Issued     | 71  | 12/09/2004 | Spatial spreading in a multi-antenna communication system  | KETCHUM, JOHN W. |
| <u>11009200</u> | Not Issued     | 71  | 12/09/2004 | Data transmission with spatial spreading in a mimo communication system  | KETCHUM, JOHN W. |
| <u>11009824</u> | Not Issued     | 61  | 12/09/2004 | Broadcast transmission with spatial spreading in a multi-antenna communication system  | KETCHUM, JOHN W. |
| <u>11042921</u> | Not Issued     | 30  | 01/24/2005 | Parser for multiple data streams in a communication system   | KETCHUM, JOHN W. |
| <u>11045781</u> | Not Issued     | 30  | 01/27/2005 | Channel calibration for a time division duplexed communication system  | KETCHUM, JOHN W. |
| <u>11049319</u> | Not Issued     | 41  | 02/01/2005 | Power control for partial channel-state information (CSI) multiple-input, multiple-output (MIMO) systems                                     | KETCHUM, JOHN W. |
| <u>11081260</u> | Not Issued     | 30  | 03/15/2005 | Iterative detection and decoding for a MIMO-OFDM system  | KETCHUM, JOHN W. |
| <u>11096839</u> | Not Issued     | 30  | 03/31/2005 | Efficient computation for eigenvalue decomposition and singular value decomposition of matrices  | KETCHUM, JOHN W. |

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|-----------------|------------|----|------------|---|------------------|
| <u>11158586</u> | Not Issued | 30 | 06/21/2005 | Efficient filter weight computation for a MIMO system   | KETCHUM, JOHN W. |
| <u>11184601</u> | Not Issued | 71 | 07/18/2005 | Beam-steering and beam-forming for wideband MIMO/MISO systems   | KETCHUM, JOHN W. |
| <u>11197497</u> | Not Issued | 30 | 08/03/2005 | Method and apparatus for determining power allocation in a MIMO communication system  | KETCHUM, JOHN W. |
| <u>11217818</u> | Not Issued | 30 | 09/01/2005 | Spatial spreading with space-time and space-frequency transmit diversity schemes for a wireless communication system                | KETCHUM, JOHN W. |
| <u>11248890</u> | Not Issued | 30 | 10/11/2005 | Resource allocation for MIMO-OFDM communication systems   | KETCHUM, JOHN W. |
| <u>11250353</u> | Not Issued | 30 | 10/13/2005 | Transmit diversity processing for a multi-antenna communication system  | KETCHUM, JOHN W. |
| <u>11280596</u> | Not Issued | 30 | 11/15/2005 | Eigenvalue decomposition and singular value decomposition of matrices using jacobi rotation   | KETCHUM, JOHN W. |
| <u>11330733</u> | Not Issued | 30 | 01/11/2006 | Reallocation of excess power for full channel-state information (CSI) multiple-input, multiple-output (MIMO) systems                | KETCHUM, JOHN W. |
| <u>11345976</u> | Not Issued | 30 | 02/01/2006 | Reduced complexity detection and decoding for a receiver in a communication system  | KETCHUM, JOHN W. |
| <u>11401758</u> | Not Issued | 25 | 04/10/2006 | Diversity transmission modes for MIMO OFDM communication systems  | KETCHUM, JOHN W. |
| <u>11471415</u> | Not Issued | 25 | 06/19/2006 | Frequency-independent spatial processing for wideband MISO and MIMO systems   | KETCHUM, JOHN W. |
| <u>11478878</u> | Not Issued | 25 | 06/30/2006 | Method and apparatus for processing data for transmission in a multi-channel communication system using selective channel inversion | KETCHUM, JOHN W. |
| <u>11481705</u> | Not Issued | 25 | 07/05/2006 | Reduced complexity beam-steered MIMO OFDM system  | KETCHUM, JOHN W. |
| <u>11494126</u> | Not Issued | 25 | 07/26/2006 | Multiple-access hybrid OFDM-CDMA system   | KETCHUM, JOHN W. |
| <u>11500852</u> | Not Issued | 25 | 08/07/2006 | Time-domain transmit and receive processing with channel eigenmode decomposition for MIMO   | KETCHUM, JOHN W. |

|                          |            |     |            |   |                  |
|--------------------------|------------|-----|------------|---|------------------|
|                          |            |     |            | systems   |                  |
| <a href="#">11557662</a> | Not Issued | 19  | 01/01/0001 | ITERATIVE DETECTION AND DECODING FOR A MIMO-OFDM SYSTEM   | KETCHUM, JOHN W. |
| <a href="#">60421309</a> | Not Issued | 159 | 10/25/2002 | MIMO WLAN system  | KETCHUM, JOHN W. |
| <a href="#">60421428</a> | Not Issued | 159 | 10/25/2002 | Channel estimation and spatial processing for TDD MIMO systems  | KETCHUM, JOHN W. |
| <a href="#">60432440</a> | Not Issued | 159 | 12/10/2002 | Random access for wireless multiple-access communication systems  | KETCHUM, JOHN W. |
| <a href="#">60432617</a> | Not Issued | 159 | 12/10/2002 | Pilots for mimo communication systems   | KETCHUM, JOHN W. |
| <a href="#">60432760</a> | Not Issued | 159 | 12/11/2002 | Derivation of eigenvectors for spatial processing in MIMO communication systems                                   | KETCHUM, JOHN W. |
| <a href="#">60511750</a> | Not Issued | 159 | 10/15/2003 | Method and apparatus for providing interoperability and backward compatibility in wireless communication systems  | KETCHUM, JOHN W. |
| <a href="#">60511904</a> | Not Issued | 159 | 10/15/2003 | Method, apparatus, and system for medium access control in a high performance wireless LAN environment            | KETCHUM, JOHN W. |
| <a href="#">60526347</a> | Not Issued | 159 | 12/01/2003 | Method, apparatus, and system for sub-network protocol stack for very high speed wireless LAN                     | KETCHUM, JOHN W. |
| <a href="#">60526356</a> | Not Issued | 159 | 12/01/2003 | Method, apparatus, and system for multiplexing protocol data units in a high performance wireless LAN environment | KETCHUM, JOHN W. |
| <a href="#">60530860</a> | Not Issued | 159 | 12/17/2003 | Broadcast transmission with pseudo-rand transmit steering in a multi-antenna communication system                 | KETCHUM, JOHN W. |

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First Name = JOHN

| Application#    | Patent#        | Status | Date Filed | Title  | Inventor Name    |
|-----------------|----------------|--------|------------|--|------------------|
| <u>60586841</u> | Not Issued     | 159    | 07/08/2004 | Method and apparatus for distributing communication resources among multiple users                 | KETCHUM, JOHN W. |
| <u>60600960</u> | Not Issued     | 159    | 08/11/2004 | Method, apparatus, and system for wireless communications  | KETCHUM, JOHN W. |
| <u>60738159</u> | Not Issued     | 20     | 11/18/2005 | Reduced complexity iterative detection and decoding for MIMO-OFDM system                           | KETCHUM, JOHN W. |
| <u>60794615</u> | Not Issued     | 20     | 04/24/2006 | Reduced complexity steered MIMO OFDM systems   | KETCHUM, JOHN W. |
| <u>60802627</u> | Not Issued     | 20     | 05/22/2006 | Single-burst acquisition for wireless communication system   | KETCHUM, JOHN W. |
| <u>60802682</u> | Not Issued     | 20     | 05/22/2006 | Jacobi iterations for eigenvector decomposition and feedback reduction                             | KETCHUM, JOHN W. |
| <u>60816988</u> | Not Issued     | 20     | 06/27/2006 | Method and system for providing beamforming feedback in wireless communication systems             | KETCHUM, JOHN W. |
| <u>08312851</u> | Not Issued     | 161    | 09/27/1994 | CDMA PACKET-SWITCHED DATA SYSTEM   | KETCHUM, JOHN W. |
| <u>08461338</u> | Not Issued     | 161    | 06/05/1995 | CDMA PACKET-SWITCHED DATA SYSTEM   | KETCHUM, JOHN W. |
| <u>08463411</u> | <u>5621723</u> | 150    | 06/05/1995 | POWER CONTROL IN A CDMA NETWORK  | KETCHUM, JOHN W. |
| <u>08463801</u> | Not Issued     | 161    | 06/05/1995 | CDMA PACKET-SWITCHED DATA SYSTEM   | KETCHUM, JOHN W. |
| <u>09165858</u> | <u>6252865</u> | 150    | 10/02/1998 | METHODS AND APPARATUSES FOR FAST POWER CONTROL OF SIGNALS TRANSMITTED ON A MULTIPLE ACCESS CHANNEL | KETCHUM, JOHN W. |

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## Inventor Name Search Result

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Last Name = WALTON

First Name = J.

| Application#             | Patent#    | Status | Date Filed | Title   | Inventor Name     |
|--------------------------|------------|--------|------------|---|-------------------|
| <a href="#">10723346</a> | Not Issued | 30     | 11/26/2003 | Quality of service scheduler for a wireless network   | WALTON, J. RODNEY |
| <a href="#">06752831</a> | Not Issued | 164    | 07/08/1985 | BIRDHOUSE   | WALTON, J. LES    |
| <a href="#">10383855</a> | Not Issued | 41     | 03/07/2003 | Method and apparatus for providing wireless communication system synchronization                                      | WALTON, J. ROD    |
| <a href="#">60576719</a> | Not Issued | 159    | 06/02/2004 | Continuous beamforming for a MIMO-OFDM system   | WALTON, J. ROD    |
| <a href="#">60578656</a> | Not Issued | 159    | 06/09/2004 | Continuous beamforming for a MIMO-OFDM system   | WALTON, J. ROD    |
| <a href="#">60607371</a> | Not Issued | 159    | 09/03/2004 | Steering diversity with space-time transmit diversity for a wireless communication system                             | WALTON, J. ROD    |
| <a href="#">60608226</a> | Not Issued | 159    | 09/08/2004 | Steering diversity with space-time and space-frequency transmit diversity schemes for a wireless communication system | WALTON, J. ROD    |
| <a href="#">60615891</a> | Not Issued | 159    | 10/04/2004 | Remote front-end for a multi-antenna station  | WALTON, J. ROD    |
| <a href="#">60628324</a> | Not Issued | 159    | 11/15/2004 | Eigenvalue decomposition and singular value decomposition of matrices using jacobi rotation                           | WALTON, J. ROD    |
| <a href="#">60628440</a> | Not Issued | 159    | 11/15/2004 | Eigenvalue decomposition and singular value decomposition of matrices using Jacobi rotation                           | WALTON, J. ROD    |
| <a href="#">60628568</a> | Not Issued | 159    | 11/16/2004 | Closed-loop rate control for a MIMO communication system  | WALTON, J. ROD    |
| <a href="#">60628785</a> | Not Issued | 159    | 11/16/2004 | Open-loop rate control for a TDD communication system   | WALTON, J. ROD    |
| <a href="#">60663419</a> | Not Issued | 159    | 03/17/2005 | Open-loop rate control for a TDD communication system   | WALTON, J. ROD    |

|                 |                |     |            |  |                   |
|-----------------|----------------|-----|------------|--|-------------------|
| <u>09206037</u> | <u>6590881</u> | 150 | 12/04/1998 | METHOD AND APPARATUS FOR PROVIDING WIRELESS COMMUNICATION SYSTEM SYNCHRONIZATION                             | WALTON, J. ROD    |
| <u>10610446</u> | Not Issued     | 30  | 06/30/2003 | Pilots for MIMO communication systems  | WALTON, J. RODNEY |
| <u>10650295</u> | <u>7065144</u> | 150 | 08/27/2003 | FREQUENCY-INDEPENDENT SPATIAL PROCESSING FOR WIDEBAND MISO AND MIMO SYSTEMS                                  | WALTON, J. RODNEY |
| <u>10674038</u> | <u>7002900</u> | 150 | 09/29/2003 | TRANSMIT DIVERSITY PROCESSING FOR A MULTI-ANTENNA COMMUNICATION SYSTEM                                       | WALTON, J. RODNEY |
| <u>10682160</u> | Not Issued     | 71  | 10/08/2003 | Receiver spatial processing for eigenmode transmission in a MIMO system                                      | WALTON, J. RODNEY |
| <u>10692833</u> | Not Issued     | 30  | 10/23/2003 | Data detection and demodulation for wireless communication systems   | WALTON, J. RODNEY |
| <u>10693169</u> | Not Issued     | 30  | 10/23/2003 | Channel calibration for a time division duplexed communication system  | WALTON, J. RODNEY |
| <u>10693171</u> | Not Issued     | 95  | 10/23/2003 | CHANNEL ESTIMATION AND SPATIAL PROCESSING FOR TDD MIMO SYSTEMS   | WALTON, J. RODNEY |
| <u>10693419</u> | Not Issued     | 30  | 10/23/2003 | MIMO WLAN system   | WALTON, J. RODNEY |
| <u>10693429</u> | Not Issued     | 30  | 10/23/2003 | MIMO system with multiple spatial multiplexing modes   | WALTON, J. RODNEY |
| <u>10693532</u> | Not Issued     | 41  | 10/23/2003 | Random access for wireless multiple-access communication systems   | WALTON, J. RODNEY |
| <u>10693535</u> | Not Issued     | 30  | 10/23/2003 | Multi-mode terminal in a wireless MIMO system  | WALTON, J. RODNEY |
| <u>10719802</u> | Not Issued     | 30  | 11/21/2003 | Multi-antenna transmission for spatial division multiple access  | WALTON, J. RODNEY |
| <u>10725904</u> | Not Issued     | 30  | 12/01/2003 | Method and apparatus for providing an efficient control channel structure in a wireless communication system | WALTON, J. RODNEY |
| <u>10781951</u> | Not Issued     | 30  | 02/18/2004 | Transmit diversity and spatial spreading for an OFDM-based multi-antenna communication system                | WALTON, J. RODNEY |



|                                 |            |     |            |   |                   |
|---------------------------------|------------|-----|------------|---|-------------------|
| <a href="#"><u>10783175</u></a> | Not Issued | 30  | 02/19/2004 | Calibration of downlink and uplink channel responses in a wireless MIMO communication system                      | WALTON, J. RODNEY |
| <a href="#"><u>10794918</u></a> | Not Issued | 30  | 03/05/2004 | Transmit diversity and spatial spreading for an OFDM-based multi-antenna communication system                     | WALTON, J. RODNEY |
| <a href="#"><u>10830907</u></a> | Not Issued | 30  | 04/22/2004 | Iterative eigenvector computation for a MIMO communication system   | WALTON, J. RODNEY |
| <a href="#"><u>11045781</u></a> | Not Issued | 30  | 01/27/2005 | Channel calibration for a time division duplexed communication system   | WALTON, J. RODNEY |
| <a href="#"><u>11250353</u></a> | Not Issued | 30  | 10/13/2005 | Transmit diversity processing for a multi-antenna communication system  | WALTON, J. RODNEY |
| <a href="#"><u>11471415</u></a> | Not Issued | 25  | 06/19/2006 | Frequency-independent spatial processing for wideband MISO and MIMO systems                                       | WALTON, J. RODNEY |
| <a href="#"><u>60511750</u></a> | Not Issued | 159 | 10/15/2003 | Method and apparatus for providing interoperability and backward compatibility in wireless communication systems  | WALTON, J. RODNEY |
| <a href="#"><u>60511904</u></a> | Not Issued | 159 | 10/15/2003 | Method, apparatus, and system for medium access control in a high performance wireless LAN environment            | WALTON, J. RODNEY |
| <a href="#"><u>60513239</u></a> | Not Issued | 159 | 10/21/2003 | Peer-to-peer connections in MIMO WLAN system  | WALTON, J. RODNEY |
| <a href="#"><u>60526347</u></a> | Not Issued | 159 | 12/01/2003 | Method, apparatus, and system for sub-network protocol stack for very high speed wireless LAN                     | WALTON, J. RODNEY |
| <a href="#"><u>60526356</u></a> | Not Issued | 159 | 12/01/2003 | Method, apparatus, and system for multiplexing protocol data units in a high performance wireless LAN environment | WALTON, J. RODNEY |
| <a href="#"><u>60530860</u></a> | Not Issued | 159 | 12/17/2003 | Broadcast transmission with pseudo-random transmit steering in a multi-antenna communication system               | WALTON, J. RODNEY |
| <a href="#"><u>60531021</u></a> | Not Issued | 159 | 12/17/2003 | Pseudo-random transmit steering in a multi-antenna communication system   | WALTON, J. RODNEY |
| <a href="#"><u>60532791</u></a> | Not Issued | 159 | 12/23/2003 | Wireless communications medium access control (MAC) enhancements  | WALTON, J. RODNEY |

|                          |            |     |            |  |                   |
|--------------------------|------------|-----|------------|--|-------------------|
| <a href="#">60536307</a> | Not Issued | 159 | 01/13/2004 | Data transmission with spatial spreading in a MIMO communication system            | WALTON, J. RODNEY |
| <a href="#">60540504</a> | Not Issued | 159 | 01/29/2004 | Distributed hierarchical scheduling  | WALTON, J. RODNEY |
| <a href="#">60545963</a> | Not Issued | 18  | 02/18/2004 | Adaptive coordination function (ACF)   | WALTON, J. RODNEY |
| <a href="#">60556965</a> | Not Issued | 159 | 03/26/2004 | Method and apparatus for scheduling in an ad hoc network                           | WALTON, J. RODNEY |
| <a href="#">60569018</a> | Not Issued | 159 | 05/07/2004 | Power-efficient multi-antenna wireless device                                      | WALTON, J. RODNEY |
| <a href="#">60569103</a> | Not Issued | 159 | 05/07/2004 | Steering diversity for an OFDM-based multi-antenna communication system            | WALTON, J. RODNEY |
| <a href="#">60576545</a> | Not Issued | 159 | 06/02/2004 | Method and apparatus for robust wireless network                                   | WALTON, J. RODNEY |
| <a href="#">60586841</a> | Not Issued | 159 | 07/08/2004 | Method and apparatus for distributing communication resources among multiple users | WALTON, J. RODNEY |

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Last Name = WALTON

First Name = J.

| Application#             | Patent#                 | Status | Date Filed | Title   | Inventor Name     |
|--------------------------|-------------------------|--------|------------|---|-------------------|
| <a href="#">60600960</a> | Not Issued              | 159    | 08/11/2004 | Method, apparatus, and system for wireless communications   | WALTON, J. RODNEY |
| <a href="#">60697504</a> | Not Issued              | 159    | 07/07/2005 | Methods and devices for interworking of wireless wide area networks and wireless local area networks or wireless personal area networks | WALTON, J. RODNEY |
| <a href="#">60704830</a> | Not Issued              | 159    | 08/01/2005 | Procedures for 20/40 MHz operation in 802.11n   | WALTON, J. RODNEY |
| <a href="#">60712320</a> | Not Issued              | 159    | 08/29/2005 | Methods and devices for interworking of wireless wide area networks and wireless local area networks or wireless personal area networks | WALTON, J. RODNEY |
| <a href="#">60724226</a> | Not Issued              | 159    | 10/05/2005 | Methods and devices for peer-to-peer communication in wireless networks   | WALTON, J. RODNEY |
| <a href="#">60750183</a> | Not Issued              | 20     | 12/13/2005 | Range extension techniques for a wireless local area network  | WALTON, J. RODNEY |
| <a href="#">60758344</a> | Not Issued              | 20     | 01/11/2006 | Sphere detection and rate selection for a mimo transmission   | WALTON, J. RODNEY |
| <a href="#">60778747</a> | Not Issued              | 20     | 03/03/2006 | Hierarchical mesh network architecture for providing 802.11-based services  | WALTON, J. RODNEY |
| <a href="#">07538920</a> | <a href="#">5093846</a> | 150    | 06/15/1990 | SIGNAL ACQUISITION USING MODULATION BY A PRESELECTED CODE GROUP   | WALTON, J. RODNEY |
| <a href="#">08745165</a> | Not Issued              | 161    | 11/07/1996 | MULTI-MODE DIVERSITY TRANSCEIVER FOR A CELLULAR COMMUNICATION SYSTEM  | WALTON, J. RODNEY |
| <a href="#">60025873</a> | Not Issued              | 159    | 09/13/1996 | SYSTEM AND METHOD FOR THE ANALYSIS OF A CDMA  | WALTON, J. RODNEY |

|                          |               |     |            |   |                      |
|--------------------------|---------------|-----|------------|---|----------------------|
|                          |               |     |            | COMMUNICATION NETWORK   |                      |
| <a href="#">60046225</a> | Not<br>Issued | 159 | 05/12/1997 | SYSTEM AND METHOD FOR<br>PROVIDING AREA-BASED<br>SERVICES IN A WIRELESS<br>COMMUNICATION SYSTEM | WALTON, J.<br>RODNEY |
| <a href="#">60569201</a> | Not<br>Issued | 159 | 05/07/2004 | Transmission mode and rate<br>selection for a wireless<br>communication system                  | WALTON, J.<br>RODNEY |

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Last Name = HOWARD

First Name = STEVEN

| Application#             | Patent#                 | Status | Date Filed | Title   | Inventor Name        |
|--------------------------|-------------------------|--------|------------|---|----------------------|
| <a href="#">09392196</a> | <a href="#">6451411</a> | 250    | 09/08/1999 | WEATHERSEAL HAVING A SUBSTRATE WITH AN ADHESIVE OVERFLOW CONTAINMENT GROOVE | HOWARD RILEY, STEVEN |
| <a href="#">07054482</a> | Not Issued              | 161    | 05/27/1987 | HAMMER WITH REPLACEABLE HEADS   | HOWARD, STEVEN       |
| <a href="#">10240908</a> | <a href="#">6972297</a> | 150    | 10/04/2002 | 2-HYDROXY-MUTILIN CARBAMATE DERIVATIVES FOR ANTIBACTERIAL USE               | HOWARD, STEVEN       |
| <a href="#">10343596</a> | <a href="#">6878704</a> | 150    | 10/17/2003 | HETEROCYCLIC MUTILIN ESTERS AND THEIR USE AS ANTIBACTERIALS                 | HOWARD, STEVEN       |
| <a href="#">10945177</a> | Not Issued              | 93     | 09/20/2004 | FULLY SHIELDED CAPACITOR CELL STRUCTURE                                     | HOWARD, STEVEN       |
| <a href="#">11416003</a> | Not Issued              | 25     | 05/02/2006 | Adjustable tray for vehicle   | HOWARD, STEVEN       |
| <a href="#">11531089</a> | Not Issued              | 25     | 09/12/2006 | ANALYZING WEB SITE TRAFFIC  | HOWARD, STEVEN       |
| <a href="#">60691756</a> | Not Issued              | 159    | 06/16/2005 | Efficient filter weight computation for a MIMO system                       | HOWARD, STEVEN       |
| <a href="#">60743658</a> | Not Issued              | 20     | 03/22/2006 | PHARMACEUTICAL COMPOUNDS  | HOWARD, STEVEN       |
| <a href="#">60763216</a> | Not Issued              | 20     | 01/30/2006 | Integrated product filler   | HOWARD, STEVEN       |
| <a href="#">10897235</a> | Not Issued              | 25     | 07/21/2004 | Balloon expandable crush-recoverable stent device                           | HOWARD, STEVEN C.    |
| <a href="#">11016269</a> | Not Issued              | 30     | 12/17/2004 | Slide-and-lock stent  | HOWARD, STEVEN C.    |
| <a href="#">60742822</a> | Not Issued              | 20     | 12/06/2005 | Simple polarization diversity technique for radar detection                 | HOWARD, STEVEN DAVID |
| <a href="#">60846795</a> | Not                     | 20     | 09/22/2006 | ESD protection technique for  | HOWARD,              |

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| <u>09613065</u> | Not Issued     | 161 | 07/08/2000 | Tool for cutting roof shingles   | HOWARD,<br>STEVEN J. |
| <u>09816481</u> | <u>6771706</u> | 150 | 03/23/2001 | METHOD AND APPARATUS FOR UTILIZING CHANNEL STATE INFORMATION IN A WIRELESS COMMUNICATION SYSTEM  | HOWARD,<br>STEVEN J. |
| <u>09829570</u> | <u>6542488</u> | 150 | 04/09/2001 | METHODS AND APPARATUSES FOR FAST POWER CONTROL OF SIGNALS TRANSMITTED ON A MULTIPLE ACCESS CHANNEL   | HOWARD,<br>STEVEN J. |
| <u>09854235</u> | <u>6785341</u> | 150 | 05/11/2001 | METHOD AND APPARATUS FOR PROCESSING DATA IN A MULTIPLE-INPUT MULTIPLE-OUTPUT (MIMO) COMMUNICATION SYSTEM UTILIZING CHANNEL STATE INFORMATION | HOWARD,<br>STEVEN J. |
| <u>09859345</u> | <u>6662024</u> | 150 | 05/16/2001 | METHOD AND APPARATUS FOR ALLOCATING DOWNLINK RESOURCES IN A MULTIPLE-INPUT MULTIPLE-OUTPUT (MIMO) COMMUNICATION SYSTEM                       | HOWARD,<br>STEVEN J. |
| <u>09859346</u> | <u>7047016</u> | 150 | 05/16/2001 | METHOD AND APPARATUS FOR ALLOCATING UPLINK RESOURCES IN A MULTIPLE-INPUT MULTIPLE-OUTPUT (MIMO) COMMUNICATION SYSTEM                         | HOWARD,<br>STEVEN J. |
| <u>09860274</u> | Not Issued     | 41  | 05/17/2001 | Method and apparatus for processing data for transmission in a multi-channel communication system using selective channel inversion          | HOWARD,<br>STEVEN J. |
| <u>09956449</u> | <u>7006848</u> | 150 | 09/18/2001 | METHOD AND APPARATUS FOR UTILIZING CHANNEL STATE INFORMATION IN A WIRELESS COMMUNICATION SYSTEM  | HOWARD,<br>STEVEN J. |
| <u>09982280</u> | Not Issued     | 83  | 10/18/2001 | Multiple-access hybrid OFDM-CDMA system  | HOWARD,<br>STEVEN J. |

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| <u>09993087</u> | Not Issued     | 161 | 11/06/2001 | Multiple-access multiple-input multiple-output (MIMO) communication system                        | HOWARD, STEVEN J. |
| <u>10001178</u> | Not Issued     | 93  | 11/02/2001 | ADAPTIVE RATE CONTROL FOR OFDM COMMUNICATION SYSTEM   | HOWARD, STEVEN J. |
| <u>10017308</u> | <u>6760388</u> | 150 | 12/07/2001 | TIME-DOMAIN TRANSMIT AND RECEIVE PROCESSING WITH CHANNEL EIGEN-MODE DECOMPOSITON FOR MIMO SYSTEMS | HOWARD, STEVEN J. |
| <u>10228393</u> | <u>6940917</u> | 150 | 08/27/2002 | BEAM-STEERING AND BEAM-FORMING FOR WIDEBAND MIMO/MISO SYSTEMS                                     | HOWARD, STEVEN J. |
| <u>10375162</u> | Not Issued     | 30  | 02/25/2003 | OFDM communication system with multiple OFDM symbol sizes   | HOWARD, STEVEN J. |
| <u>10383855</u> | Not Issued     | 41  | 03/07/2003 | Method and apparatus for providing wireless communication system synchronization                  | HOWARD, STEVEN J. |
| <u>10448801</u> | Not Issued     | 41  | 05/31/2003 | Closed-loop rate control for a multi-channel communication system                                 | HOWARD, STEVEN J. |
| <u>10610446</u> | Not Issued     | 30  | 06/30/2003 | Pilots for MIMO communication systems   | HOWARD, STEVEN J. |
| <u>10650295</u> | <u>7065144</u> | 150 | 08/27/2003 | FREQUENCY-INDEPENDENT SPATIAL PROCESSING FOR WIDEBAND MISO AND MIMO SYSTEMS                       | HOWARD, STEVEN J. |
| <u>10674038</u> | <u>7002900</u> | 150 | 09/29/2003 | TRANSMIT DIVERSITY PROCESSING FOR A MULTI-ANTENNA COMMUNICATION SYSTEM                            | HOWARD, STEVEN J. |
| <u>10682160</u> | Not Issued     | 71  | 10/08/2003 | Receiver spatial processing for eigenmode transmission in a MIMO system                           | HOWARD, STEVEN J. |
| <u>10693169</u> | Not Issued     | 30  | 10/23/2003 | Channel calibration for a time division duplexed communication system                             | HOWARD, STEVEN J. |
| <u>10693171</u> | Not Issued     | 95  | 10/23/2003 | CHANNEL ESTIMATION AND SPATIAL PROCESSING FOR TDD MIMO SYSTEMS                                    | HOWARD, STEVEN J. |
| <u>10693419</u> | Not Issued     | 30  | 10/23/2003 | MIMO WLAN system  | HOWARD, STEVEN J. |
| <u>10693429</u> | Not            | 30  | 10/23/2003 | MIMO system with multiple   | HOWARD,           |

|                          |                         |     |            |  |                   |
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|                          | Issued                  |     |            | spatial multiplexing modes   | STEVEN J.         |
| <a href="#">10693532</a> | Not Issued              | 41  | 10/23/2003 | Random access for wireless multiple-access communication systems   | HOWARD, STEVEN J. |
| <a href="#">10693535</a> | Not Issued              | 30  | 10/23/2003 | Multi-mode terminal in a wireless MIMO system  | HOWARD, STEVEN J. |
| <a href="#">10696208</a> | Not Issued              | 30  | 10/29/2003 | Multiple-access hybrid OFDM-CDMA system  | HOWARD, STEVEN J. |
| <a href="#">10696630</a> | Not Issued              | 61  | 10/29/2003 | Method and apparatus for allocating downlink resources in a multiple-input multiple-output (MIMO) communication system | HOWARD, STEVEN J. |
| <a href="#">10719802</a> | Not Issued              | 30  | 11/21/2003 | Multi-antenna transmission for spatial division multiple access  | HOWARD, STEVEN J. |
| <a href="#">10781951</a> | Not Issued              | 30  | 02/18/2004 | Transmit diversity and spatial spreading for an OFDM-based multi-antenna communication system                          | HOWARD, STEVEN J. |
| <a href="#">10783175</a> | Not Issued              | 30  | 02/19/2004 | Calibration of downlink and uplink channel responses in a wireless MIMO communication system                           | HOWARD, STEVEN J. |
| <a href="#">10786856</a> | Not Issued              | 30  | 02/24/2004 | Method and apparatus for utilizing channel state information in a wireless communication system                        | HOWARD, STEVEN J. |
| <a href="#">10794918</a> | Not Issued              | 30  | 03/05/2004 | Transmit diversity and spatial spreading for an OFDM-based multi-antenna communication system                          | HOWARD, STEVEN J. |
| <a href="#">10821390</a> | Not Issued              | 30  | 04/09/2004 | Spatial processing with steering matrices for pseudo-random transmit steering in a multi-antenna communication system  | HOWARD, STEVEN J. |
| <a href="#">10830907</a> | Not Issued              | 30  | 04/22/2004 | Iterative eigenvector computation for a MIMO communication system  | HOWARD, STEVEN J. |
| <a href="#">10882491</a> | <a href="#">7110463</a> | 150 | 06/30/2004 | EFFICIENT COMPUTATION OF SPATIAL FILTER MATRICES FOR STEERING TRANSMIT DIVERSITY IN A MIMO COMMUNICATION SYSTEM        | HOWARD, STEVEN J. |

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| Application#             | Patent#                 | Status | Date Filed | Title  | Inventor Name     |
|--------------------------|-------------------------|--------|------------|--|-------------------|
| <a href="#">10884305</a> | <a href="#">7116725</a> | 150    | 07/02/2004 | TIME-DOMAIN TRANSMIT AND RECEIVE PROCESSING WITH CHANNEL EIGEN-MODE DECOMPOSITION FOR MIMO SYSTEMS   | HOWARD, STEVEN J. |
| <a href="#">10888804</a> | Not Issued              | 30     | 07/09/2004 | Refrigeration source for a cryoablation catheter   | HOWARD, STEVEN J. |
| <a href="#">10892732</a> | Not Issued              | 30     | 07/15/2004 | Unified MIMO transmission and reception  | HOWARD, STEVEN J. |
| <a href="#">10903066</a> | Not Issued              | 30     | 07/30/2004 | Method and apparatus for utilizing channel state information in a wireless communication system  | HOWARD, STEVEN J. |
| <a href="#">10903813</a> | <a href="#">7054378</a> | 150    | 07/29/2004 | METHOD AND APPARATUS FOR PROCESSING DATA IN A MULTIPLE-INPUT MULTIPLE-OUTPUT (MIMO) COMMUNICATION SYSTEM UTILIZING CHANNEL STATE INFORMATION | HOWARD, STEVEN J. |
| <a href="#">11008865</a> | Not Issued              | 71     | 12/09/2004 | Spatial spreading in a multi-antenna communication system  | HOWARD, STEVEN J. |
| <a href="#">11009200</a> | Not Issued              | 71     | 12/09/2004 | Data transmission with spatial spreading in a mimo communication system  | HOWARD, STEVEN J. |
| <a href="#">11009824</a> | Not Issued              | 61     | 12/09/2004 | Broadcast transmission with spatial spreading in a multi-antenna communication system  | HOWARD, STEVEN J. |
| <a href="#">11045781</a> | Not Issued              | 30     | 01/27/2005 | Channel calibration for a time division duplexed communication system  | HOWARD, STEVEN J. |
| <a href="#">11050897</a> | Not Issued              | 30     | 02/03/2005 | Continuous beamforming for a MIMO-OFDM system  | HOWARD, STEVEN J. |
| <a href="#">11066771</a> | Not                     | 30     | 02/24/2005 | Steering diversity for an OFDM-  | HOWARD,           |

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|                 | Issued     |    |            | based multi-antenna communication system   | STEVEN J.         |
| <u>11096839</u> | Not Issued | 30 | 03/31/2005 | Efficient computation for eigenvalue decomposition and singular value decomposition of matrices                      | HOWARD, STEVEN J. |
| <u>11158586</u> | Not Issued | 30 | 06/21/2005 | Efficient filter weight computation for a MIMO system  | HOWARD, STEVEN J. |
| <u>11184601</u> | Not Issued | 71 | 07/18/2005 | Beam-steering and beam-forming for wideband MIMO/MISO systems  | HOWARD, STEVEN J. |
| <u>11217818</u> | Not Issued | 30 | 09/01/2005 | Spatial spreading with space-time and space-frequency transmit diversity schemes for a wireless communication system | HOWARD, STEVEN J. |
| <u>11250353</u> | Not Issued | 30 | 10/13/2005 | Transmit diversity processing for a multi-antenna communication system   | HOWARD, STEVEN J. |
| <u>11280596</u> | Not Issued | 30 | 11/15/2005 | Eigenvalue decomposition and singular value decomposition of matrices using jacobi rotation                          | HOWARD, STEVEN J. |
| <u>11301790</u> | Not Issued | 93 | 12/12/2005 | METHOD AND APPARATUS FOR ALLOCATING UPLINK RESOURCES IN A MULTIPLE-INPUT MULTIPLE-OUTPUT (MIMO) COMMUNICATION SYSTEM | HOWARD, STEVEN J. |
| <u>11332059</u> | Not Issued | 71 | 01/13/2006 | Multiple-access multiple-input multiple-output (MIMO) communication system   | HOWARD, STEVEN J. |
| <u>11349367</u> | Not Issued | 20 | 02/06/2006 | Sphere detection and rate selection for a MIMO transmission  | HOWARD, STEVEN J. |
| <u>11471415</u> | Not Issued | 25 | 06/19/2006 | Frequency-independent spatial processing for wideband MISO and MIMO systems  | HOWARD, STEVEN J. |
| <u>11481705</u> | Not Issued | 25 | 07/05/2006 | Reduced complexity beam-steered MIMO OFDM system   | HOWARD, STEVEN J. |
| <u>11494126</u> | Not Issued | 25 | 07/26/2006 | Multiple-access hybrid OFDM-CDMA system  | HOWARD, STEVEN J. |
| <u>11500852</u> | Not Issued | 25 | 08/07/2006 | Time-domain transmit and receive processing with channel eigenmode decomposition for MIMO systems                    | HOWARD, STEVEN J. |
| <u>11520095</u> | Not Issued | 25 | 09/12/2006 | Efficient computation of spatial filter matrices for steering transmit   | HOWARD, STEVEN J. |

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|                 |            |     |            | diversity in a MIMO communication system  |                   |
| <u>60421309</u> | Not Issued | 159 | 10/25/2002 | MIMO WLAN system  | HOWARD, STEVEN J. |
| <u>60421428</u> | Not Issued | 159 | 10/25/2002 | Channel estimation and spatial processing for TDD MIMO systems  | HOWARD, STEVEN J. |
| <u>60421462</u> | Not Issued | 159 | 10/25/2002 | Channel calibration for a time division duplexed communication system   | HOWARD, STEVEN J. |
| <u>60432440</u> | Not Issued | 159 | 12/10/2002 | Random access for wireless multiple-access communication systems  | HOWARD, STEVEN J. |
| <u>60432617</u> | Not Issued | 159 | 12/10/2002 | Pilots for mimo communication systems   | HOWARD, STEVEN J. |
| <u>60503581</u> | Not Issued | 159 | 09/16/2003 | Clear plastic molded door shelving with integrated hooks  | HOWARD, STEVEN J. |
| <u>60569103</u> | Not Issued | 159 | 05/07/2004 | Steering diversity for an OFDM-based multi-antenna communication system   | HOWARD, STEVEN J. |
| <u>60576719</u> | Not Issued | 159 | 06/02/2004 | Continuous beamforming for a MIMO-OFDM system   | HOWARD, STEVEN J. |
| <u>60578656</u> | Not Issued | 159 | 06/09/2004 | Continuous beamforming for a MIMO-OFDM system   | HOWARD, STEVEN J. |
| <u>60600960</u> | Not Issued | 159 | 08/11/2004 | Method, apparatus, and system for wireless communications   | HOWARD, STEVEN J. |
| <u>60607371</u> | Not Issued | 159 | 09/03/2004 | Steering diversity with space-time transmit diversity for a wireless communication system                             | HOWARD, STEVEN J. |
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| <u>60628324</u> | Not Issued | 159 | 11/15/2004 | Eigenvalue decomposition and singular value decomposition of matrices using jacobi rotation                           | HOWARD, STEVEN J. |
| <u>60628440</u> | Not Issued | 159 | 11/15/2004 | Eigenvalue decomposition and singular value decomposition of matrices using Jacobi rotation                           | HOWARD, STEVEN J. |
| <u>60758344</u> | Not Issued | 20  | 01/11/2006 | Sphere detection and rate selection for a mimo transmission   | HOWARD, STEVEN J. |
| <u>60794615</u> | Not Issued | 20  | 04/24/2006 | Reduced complexity steered MIMO OFDM systems  | HOWARD, STEVEN J. |
| <u>60802627</u> | Not        | 20  | 05/22/2006 | Single-burst acquisition for  | HOWARD,           |

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|-----------------|----------------|-----|------------|--|------------------------|
|                 | Issued         |     |            | wireless communication system  | STEVEN J.              |
| <u>60802682</u> | Not Issued     | 20  | 05/22/2006 | Jacobi iterations for eigenvector decomposition and feedback reduction                             | HOWARD, STEVEN J.      |
| <u>60811245</u> | Not Issued     | 20  | 06/05/2006 | Method and system for providing beamforming feedback in wireless communication systems             | HOWARD, STEVEN J.      |
| <u>09018544</u> | <u>5862658</u> | 250 | 02/04/1998 | GRASS REMOVER FOR TERMITE BAIT STATION   | HOWARD, STEVEN J.      |
| <u>09165858</u> | <u>6252865</u> | 150 | 10/02/1998 | METHODS AND APPARATUSES FOR FAST POWER CONTROL OF SIGNALS TRANSMITTED ON A MULTIPLE ACCESS CHANNEL | HOWARD, STEVEN J.      |
| <u>09173572</u> | <u>6256301</u> | 150 | 10/15/1998 | RESERVATION MULTIPLE ACCESS  | HOWARD, STEVEN J.      |
| <u>09206037</u> | <u>6590881</u> | 150 | 12/04/1998 | METHOD AND APPARATUS FOR PROVIDING WIRELESS COMMUNICATION SYSTEM SYNCHRONIZATION                   | HOWARD, STEVEN J.      |
| <u>09218642</u> | Not Issued     | 161 | 12/22/1998 | TOOL FOR CUTTING ROOF SHINGLES   | HOWARD, STEVEN J.      |
| <u>09099538</u> | <u>6230153</u> | 150 | 06/18/1998 | ASSOCIATION RULE RANKER FOR WEB SITE EMULATION   | HOWARD, STEVEN KENNETH |

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| Application#             | Patent#                 | Status | Date Filed | Title  | Inventor Name          |
|--------------------------|-------------------------|--------|------------|--|------------------------|
| <a href="#">09099622</a> | <a href="#">6278966</a> | 150    | 06/18/1998 | METHOD AND SYSTEM FOR EMULATING WEB SITE TRAFFIC TO IDENTIFY WEB SITE USAGE PATTERNS               | HOWARD, STEVEN KENNETH |
| <a href="#">60831892</a> | Not Issued              | 20     | 07/18/2006 | Hybrid bump capacitor  | HOWARD, STEVEN L.      |
| <a href="#">60246887</a> | Not Issued              | 159    | 11/08/2000 | Method of sensitizing tumor cells  | HOWARD, STEVEN P       |
| <a href="#">09878797</a> | Not Issued              | 161    | 06/11/2001 | Monoterpenes and sesquiterpenes as chemotherapeutic sensitizers and radiation sensitizers          | HOWARD, STEVEN P.      |
| <a href="#">10014724</a> | <a href="#">7056491</a> | 150    | 11/07/2001 | MONOTERPENES AND SESQUITERPENES AS CHEMOTHERAPEUTIC AND RADIATION SENSITIZERS AND IMMUNOMODULATORS | HOWARD, STEVEN P.      |
| <a href="#">60211506</a> | Not Issued              | 159    | 06/14/2000 | Monoterpenes and sesquiterpenes as chemotherapeutic sensitizers and radiation sensitizers          | HOWARD, STEVEN P.      |
| <a href="#">60755120</a> | Not Issued              | 20     | 12/30/2005 | Motexafin-gadolinium taken up in vitro by >90% of glioblastoma cell nuclei                         | HOWARD, STEVEN P.      |
| <a href="#">08987195</a> | <a href="#">6030004</a> | 150    | 12/08/1997 | HIGH TORQUE THREADED TOOL JOINT FOR DRILL PIPE AND OTHER DRILL STEM COMPONENTS                     | HOWARD, STEVEN P.      |
| <a href="#">29084688</a> | <a href="#">D421521</a> | 150    | 03/06/1998 | PICNIC SACK  | HOWARD, STEVEN R.      |
| <a href="#">29111780</a> | <a href="#">D433567</a> | 150    | 10/04/1999 | PORTABLE BABY BAG  | HOWARD, STEVEN R.      |
| <a href="#">29112448</a> | Not Issued              | 164    | 10/15/1999 | CONVERTIBLE BEACH BAG AND TOWEL  | HOWARD, STEVEN R.      |